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Agricultural Memorandum No 747

Variation of May - October day-degrees above 10°C with height

L P Smith

Analysing regionally the areal values of average May - October day-degrees above 10°C (daily basis) against height in metres, it was found.

		Correl
NE England	659.2 - 0.74h	(-0.64)
NW England	749.6 - 0.86h	(-0.86)
Midlands	867.7 - 1.08h	(-0.81)
E and SE England	902 - 1.09h	(-0.54)
SW England	866.4 - 1.12h	(-0.94)
Wales	775.5 - 0.81h	(-0.83)

Applying a height correction of 0.6°C per 100m to the equations in Ag Mem 735 the result would be

Inland areas	86 day degrees per 100m
Coastal areas	91 day degrees per 100m

This suggests that a value of 90 per 100m for England and Wales would not be far from the truth.

Any comments or suggestions on this paper should be referred to the author.

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